

INVITATION TO BID		LSU	BID DUE DATE AND TIME	
BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL & MECHANICAL COLLEGE			02/02/2016	11:00 AM CT
SOLICITATION 000013870 VENDOR # VENDOR NAME AND ADDRESS <div style="border: 1px solid black; height: 100px; width: 380px; margin-top: 10px;"></div>			RETURN BID TO LSU LOUISIANA STATE UNIV. PROCUREMENT OFFICE 213 THOMAS BOYD HALL Baton Rouge LA 70803 BUYER Jene' Ledet BUYER PHONE (225)578-5510 BUYER EMAIL jeneledet@lsu.edu ISSUE DATE 01/13/2016	
TITLE: IPAM SOLUTION				
To Be Completed By Bidder 1. _____ "No Bid" (sign and return this page only). 2. _____ My Company does not wish to receive future solicitations for this commodity code. 3. Specify your Delivery: To be made within _____ days after receipt of order. 4. Specify your Payment Terms: _____. Prompt payment cash discounts for less than 30 days and less than 1% will be accepted, but will not be considered in determining awards. On indefinite quantity term contracts, cash discounts will be accepted and taken, but will not be considered in determining awards.				
General Instructions to Bidders 1. Sealed bids for furnishing the items and/or services specified are hereby solicited, and will be received by the issuing LSU Campus/Department at the "Return Bid To" address stated above, until the specified due date and time. 2. Bids must be signed by a person authorized to bind the vendor. In accordance with LAC 34: XIII.517, the person signing the bid must be: (1) any corporate officer listed on the most current annual report on file with the secretary of state, or the signature on the bid is that of any member of a partnership or partnership in commendam listed in the most current partnership records on file with the secretary of state; or (2) an authorized representative of the corporation, partnership, or other legal entity and the bid is accompanied by a corporate resolution, certification as to the corporate principal, or other documents indicating authority which are acceptable to the public entity; or (3) the entity has filed in the appropriate records of the secretary of state in which the public entity is located, an affidavit, resolution, or other acknowledged or authentic document indicating the names of all parties authorized to submit bids for public contracts. 3. Read the entire solicitation, including all terms, conditions and specifications. 4. All bid information and prices must be typed or written in ink. Any corrections, erasures or other forms of alteration to unit price are to be initialed by the bidder. 5. Bid prices shall include all delivery charges paid by the vendor, F.O.B. LSU Destination, unless otherwise provided in the solicitation. Any invoiced delivery charges not quoted and itemized on the LSU purchase order are subject to rejection and non-payment. 6. Payment is to be made within 30 days after receipt of properly executed invoice, or delivery and acceptance, whichever is later. 7. By signing this solicitation, the bidder certifies compliance with all general instructions to bidders, terms, conditions and specifications; and further certifies that this bid is made without collusion or fraud.				
BIDDER (Name of Firm)			MAILING ADDRESS	
AUTHORIZED SIGNATURE			CITY, STATE ZIP	
PRINTED NAME			PHONE #	
TITLE			FAX #	
E-MAIL			FEDERAL TAX ID #	

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These standard terms and conditions shall apply to all LSU solicitations, unless otherwise specifically amended and provided for in the special terms and conditions, specifications, or other solicitation documents. In the event of conflict between the General Instructions to Bidders or Standard Terms & Conditions and the Special Terms & Conditions, the Special Terms & Conditions shall govern.

Bids submitted are subject to provisions of the laws of the State of Louisiana, including but not limited to: the University Pilot Procurement Code (LAC 34:XIII. Chapters 3-25) and the terms, conditions, and specifications stated in this solicitation.

1. Bid Delivery and Receipt

To be considered, sealed bids must be received and time-stamped at the "Return Bid To" address no later than the due date and time specified herein. Sealed bids cannot be accepted by telegraph, fax, or e-mail. Price alterations and addenda to bids may be submitted by telegraph or fax, and will be considered provided bidder's sealed bid, price alterations and addenda have been received in the purchasing office prior to bid opening time. Late bids cannot be accepted per L.A.C. 34.I.517, and shall be returned unopened.

2. Bid Forms

Bids are to be submitted on and in accordance with the LSU solicitation forms provided, and must be signed by an authorized agent of the vendor. Bids submitted on other forms or in other price formats may be considered informal and may be rejected in part or in its entirety. Bids submitted in pencil and/or bids containing no original signature indicating the bidder's intent to be bound will not be accepted.

3. Interpretation of Solicitation/Bidder Inquiries

If bidder is in doubt as to the meaning of any part or requirement of this solicitation, bidder may submit a written request for interpretation to the Buyer-of-Record at the address and/or fax number shown above. Written inquiries must be received in the Procurement Office no later than five (5) calendar days prior to the opening of bids, and shall be clearly cross-referenced to the relevant solicitation/specification in question.

No decisions or actions shall be executed by any bidder as a result of oral discussions with any LSU employee or consultant. Any interpretation of the documents will be made by formal addendum only, issued by the Procurement Office, and mailed or delivered to all bidders known to have received the solicitation. LSU shall not be responsible for any other interpretations or assumptions made by bidder.

4. Bid Opening

Bidders may attend the public bid opening of sealed bids and proposals. No information or opinions concerning the ultimate contract award will be given at bid opening or during the evaluation process. Written bid tabulations will not be furnished. Bids may be examined within 72 hours after bid opening. Information pertaining to completed files may be secured by visiting the Procurement Office during normal working hours.

5. Special Accommodations

Any "qualified individual with a disability" as defined by the Americans with Disabilities Act, who has submitted a bid and desires to attend the public bid opening, must notify the Procurement Office in writing not later than seven days prior to the bid opening date of their need for special accommodations. If the request cannot be reasonably provided, the individual will be informed prior to the bid opening.

6. Standards of Quality

Any product or service bid shall conform to all applicable federal, state and local laws and regulations, and the specifications contained in the solicitation. Any manufacturer's name, trade name, brand name, or catalog number used in the specification is for the purpose of describing the standard of quality, performance, and characteristics desired; and is not intended to limit or restrict competition. Bidder must specify the brand and model number of the product offered in his bid. Bids not specifying brand and model number shall be considered as offering the exact product specified in the solicitation.

7. New Products/Warranty/Patents

All products bid for purchase must be new, never previously used, of the manufacturer's current model and/or packaging, and of best quality as measured by acceptable trade standards. No remanufactured, demonstrator, used or irregular products will be considered for purchase unless otherwise specified.

The manufacturer's standard published warranty and provisions shall apply, unless more stringent warranties are otherwise required by LSU and specified in the solicitation. In such cases, the bidder and/or manufacturer shall honor the specified warranty requirements, and bid prices shall include any premium costs of such coverage.

Bidder guarantees that the products proposed and furnished will not infringe upon any valid patent or trademark; and shall, at its own expense, defend any and all actions or suits charging such infringement, and shall save LSU harmless.

8. Descriptive Information

Bidders proposing an equivalent brand or model are to submit with the bid descriptive information (such as literature, technical data, illustrations, etc) sufficient for LSU to evaluate quality, suitability, and compliance with the specifications. Failure to

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submit descriptive information may cause bid to be rejected. Any changes made by bidder to a manufacturer's published specifications shall be verifiable by the manufacturer. If items bid do not fully comply with specifications, bidder must state in what respect items deviate. Bidder's failure to note exceptions in its bid will not relieve the bidder from supplying the actual products requested.

9. Bids/Prices/F.O.B. Point

- The bid price for each item is to be quoted on a "net" basis and F.O.B. LSU Destination, i.e. title passing upon receipt and inclusive of all delivery charges, any item discounts, etc.
- Bids other than F.O.B. LSU Destination may be rejected.
- Bids indicating estimated freight charges may be rejected.
- Bids requiring deposits, payment in advance, or C.O.D. terms may be rejected.
- Bidders who do not quote "net" item prices and who separately quote an overall "lump sum" freight cost or discount for all items shall be considered as submitting an "all-or-none" bid for evaluation and award purposes; and risk rejection if award is made on an item basis.
- Prices shall be firm for acceptance for a minimum of 30 days, unless otherwise specified. Bids conditioned with shorter acceptance periods may be rejected.
- Prices are to be quoted in the unit/package specified (e.g. each, 12/box, etc), or may be rejected.
- In the event of extension errors, the unit price bid shall prevail.

10. Taxes

Vendor is responsible for including all applicable taxes in the bid price. LSU is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly assessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc.

11. Terms and Conditions

This solicitation contains all terms and conditions with respect to the purchase of the goods and/or services specified herein. Submittal of any contrary terms and conditions may cause your bid to be rejected. By signing and submitting a bid, vendor agrees that contrary terms and conditions which may be included in its bid are nullified; and agrees that this contract shall be construed in accordance with this solicitation and governed by the laws of the State of Louisiana.

12. Vendor Forms/LSU Signature Authority

The terms and conditions of the LSU solicitation and purchase order/contract shall solely govern the purchase agreement, and shall not be amended by any vendor contract, form, etc.

The University's chief procurement officer, or authorized designee, is delegated sole authority to execute/sign any vendor contracts, forms, etc, on behalf of LSU. Departments are expressly prohibited from signing any vendor forms.

Any such vendor contracts/forms bearing unauthorized signatures shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom. Vendors who present any such forms to department users for signature without regard to this strict LSU policy may face contract cancellation, suspension, and/or debarment.

13. Awards

Award will be made to the lowest responsible and responsive bidder. LSU reserves the right: (1) to award items separately, grouped, or on an all-or-none basis, as deemed in its best interest; (2) to reject any or all bids and/or items; and (3) to waive any informalities.

All solicitation specifications, terms and conditions shall be made part of any subsequent award as if fully reproduced and included therein, unless specifically amended in the formal contract.

14. Acceptance of Bid

Only the issuance of an official LSU purchase order/contract, a Notification of Award letter, or a Notification of Intent to Award letter shall constitute the University's acceptance of a bid. LSU shall not be responsible in any way to a vendor for goods delivered or services rendered without an official purchase order/contract.

15. Applicable Law

All contracts shall be construed in accordance with and governed by the laws of the State of Louisiana.

16. Awarded Products/Unauthorized Substitutions

Only those awarded brands and numbers stated in the LSU contract are approved for delivery, acceptance, and payment purposes. Any substitutions require prior approval of the Procurement Office. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at vendor's expense, and non-payment.

17. Testing/Rejected Goods

Vendor warrants that the products furnished will be in full conformity with the specification, drawing or sample, and agrees that this warranty shall survive delivery, acceptance, and use. Any defect in any product may cause its rejection. LSU reserves the right to test products for conformance to specifications both prior to and after any award. Vendor shall bear the cost of testing

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if product is found to be non-compliant. All rejected goods will be held at vendor's risk and expense, and subject to vendor's prompt disposition. Unless otherwise arranged, rejected goods will be returned to the vendor freight collect.

18. Delivery

Vendor is responsible for making timely delivery in accordance with its quoted delivery terms. Vendor shall promptly notify the LSU Department and/or Procurement Office of any unforeseen delays beyond its control. In such cases, LSU reserves the right to cancel the order and to make alternative arrangements to meet its needs.

19. Default of Vendor

Failure to deliver within the time specified in the bid/award will constitute a default and may be cause for contract cancellation. Where the University has determined the vendor to be in default, LSU reserves the right to purchase any or all goods or services covered by the contract on the open market and to surcharge the vendor with costs in excess of the contract price. Until such assessed surcharges have been paid, no subsequent bids from the defaulting vendor will be considered for award.

20. Vendor Invoices

Invoices shall reference the LSU purchase/release order number, vendor's packing list/delivery ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order, show the amount of any prompt payment discount, and submitted on the vendor's own invoice form. Invoices submitted by the vendor's supplier are not acceptable.

21. Delinquent Payment Penalties

Delinquent payment penalties are mandated and governed by Louisiana R.S. 39:1695. Vendor penalties to the contrary shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom.

22. Assignment of Contract/Contract Proceeds

Vendor shall not assign, sublet or transfer its contractual responsibilities, or payment proceeds thereof, to another party without the prior written consent and approval of the Procurement Office. Unauthorized assignments of contract or assignments of contract proceeds shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom.

23. Contract Cancellation

LSU has the right to cancel any contract for cause, in accordance with purchasing rules and regulations, including but not limited to: (1) failure to deliver within the time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentation by the vendor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the University; (5) conflict of contract provisions with constitutional or statutory provisions of state or federal law; (6) any other breach of contract.

LSU has the right to cancel any contract for convenience at any time by giving thirty (30) days written notice to the vendor. In such cases, the vendor shall be entitled to payment for compliant deliverables in progress.

24. Prohibited Contractual Arrangements

Per Louisiana R.S. 42:1113.A, no public servant, or member of such a public servant's immediate family, or legal entity in which he has a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions, and provisions.

25. Equal Employment Opportunity Compliance

By submitting and signing this bid, vendor agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972; federal Executive Order 11246; federal Rehabilitation Act of 1973, as amended; the Vietnam Era Veteran's Readjustment Assistance Act of 1974; Title IX of the Education Amendments of 1972; the Age Act of 1975; the Americans with Disabilities Act of 1990. Vendor agrees not to discriminate in its employment practices, and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sex, age, national origin, veteran status, political affiliation, handicap, disability, or other non-merit factor. Any act of discrimination committed by vendor, or failure to comply with these statutory obligations when applicable, shall be grounds for termination of any contract entered into as a result of this solicitation.

26. Mutual Indemnification

Each party hereto agrees to indemnify, defend, and hold the other, its officers, directors, agents and employees harmless from and against any and all losses, liabilities, and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence.

27. Certification of No Suspension or Debarment

By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at www.epls.gov.

PRICE SHEET

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
	UNLESS SPECIFIED ELSEWHERE, SHIP ALL ITEMS TO: LSU INFORMATION TECHNOLOGY SV TELECOMMUNICATIONS 200 FREY COMP. SERV. CTR. Baton Rouge, LA 70803 ALL-OR-NONE AWARD: It is the intent of the University to award all items on an all-or-none basis to the overall lowest responsive and responsible bidder.				
0001	Commodity Code: 208-00 VIRTUAL SERVER IP ADDRESS MANAGEMENT PER THE ATTACHED SPECIFICATIONS.	2.00	EA	\$ _____	\$ _____
0002	Commodity Code: 208-00 MAINTENANCE; IP ADDRESS MANAGEMENT SERVER YEARLY MAINTENANCE PER THE ATTACHED SPECIFICATIONS. PRICE QUOTED SHALL BE FIRM FOR 5 YEARS. INITIAL PURCHASE ORDER ISSUANCE WILL INCLUDE THE FIRST YEAR OF MAINTENANCE, WITH SUBSEQUENT ORDERS TO BE ISSUED AT THE SAME PRICE ANNUALLY FOR 4 ADDITIONAL YEARS. FOR AWARD PURPOSES, ONLY 1 YEAR OF MAINTENANCE COSTS WILL BE CONSIDERED.	2.00	EA	\$ _____	\$ _____

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT	
0003	Commodity Code: 208-00 SOFTWARE; DNS/DHCP VIRTUAL SERVERS PER THE ATTACHED SPECIFICATIONS.	6.00	EA	\$ _____	\$ _____	
0004	Commodity Code: 208-00 SOFTWARE MAINTENANCE; DNS/DHCP VIRTUAL SERVER YEARLY MAINTENANCE PER THE ATTACHED SPECIFICATIONS. PRICE QUOTED SHALL BE FIRM FOR 5 YEARS. INITIAL PURCHASE ORDER ISSUANCE WILL INCLUDE THE FIRST YEAR OF MAINTENANCE, WITH SUBSEQUENT ORDERS TO BE ISSUED AT THE SAME PRICE ANNUALLY FOR 4 ADDITIONAL YEARS. FOR AWARD PURPOSES, ONLY 1 YEAR OF MAINTENANCE WILL BE CONSIDERED.	6.00	EA	\$ _____	\$ _____	
0005	Commodity Code: 204-54 NETWORK EQUIPMENT; PHYSICAL DNS SERVER. PER THE ATTACHED SPECIFICATIONS.	1.00	EA	\$ _____	\$ _____	
0006	Commodity Code: 920-45 HARDWARE MAINTENANCE; PHYSICAL DNS SERVER YEARLY MAINTENANCE PER THE ATTACHED SPECIFICATIONS. PRICE QUOTED SHALL BE FIRM FOR 5 YEARS. INITIAL PURCHASE ORDER ISSUANCE WILL INCLUDE THE FIRST YEAR OF MAINTENANCE, WITH	1.00	EA	\$ _____	\$ _____	

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT	
	SUBSEQUENT ORDERS TO BE ISSUED AT THE SAME PRICE ANNUALLY FOR 4 ADDITIONAL YEARS. FOR AWARD PURPOSES, ONLY 1 YEAR OF MAINTENANCE WILL BE CONSIDERED.					
0007	Commodity Code: 208-00 RPZ SECURITY FEED FOR DNS FOR 12 MONTH PERIOD PER THE ATTACHED SPECIFICATIONS.	2.00	EA	\$ _____	\$ _____	
0008	Commodity Code: 208-00 SOFTWARE; DEVICE REGISTRATION PORTAL PER THE ATTACHED SPECIFICATIONS.	1.00	EA	\$ _____	\$ _____	
0009	Commodity Code: 918-00 SOFTWARE MAINTENANCE; DEVICE REGISTRATION PORTAL YEARLY MAINTENANCE PER THE ATTACHED SPECIFICATIONS. PRICE QUOTED SHALL BE FIRM FOR 5 YEARS. INITIAL PURCHASE ORDER ISSUANCE WILL INCLUDE THE FIRST YEAR OF MAINTENANCE, WITH SUBSEQUENT ORDERS TO BE ISSUED AT THE SAME PRICE ANNUALLY FOR 4 ADDITIONAL YEARS. FOR AWARD PURPOSES, ONLY 1 YEAR OF MAINTENANCE WILL BE CONSIDERED.	1.00	EA	\$ _____	\$ _____	

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT		
0010	Commodity Code: 208-00 IMPLEMENTATION AND INSTALLATION OF SOFTWARE AND HARDWARE DEVICES	185.00	HR	\$ _____	\$ _____		
0011	Commodity Code: 204-54 ONSITE TRAINING	1.00	LOT	\$ _____	\$ _____		
0012	Commodity Code: 204-54 SHIPPING	1.00	LOT	\$ _____	\$ _____		

SPECIAL TERMS & CONDITIONS**INVITATION TO BID**

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- 01 A preference, if applicable, may be allowed for products produced, manufactured, assembled, grown or harvested in Louisiana. Do you claim this preference? Yes ____ No ____ . Note: Preferences shall not apply to service contracts. Is your Louisiana business workforce composed of a minimum of fifty percent Louisiana residents? Yes ____ No ____ . Specify Item Number and location within Louisiana where the product is/was produced, manufactured, assembled, grown or harvested: _____ Note: This preference is not applicable for services.
- 02 Please note attached insurance requirements. Successful bidder will be required to furnish a certificate of insurance evidencing required coverages and naming the Board of Supervisors of Louisiana State University and Agricultural and Mechanical College as an additional insured on all liability policies.
- 03 Sealed Bid Delivery Instructions and Advisory: To assure consideration, your bid must be submitted in a sealed envelope or package and should be clearly and prominently marked with the solicitation number and bid due date, or may be submitted using the special bid return label if one was furnished for that purpose. Bidders are advised that the U.S. Postal Service does not make deliveries to our physical location. USPS mail is delivered to the University's mail center and is redelivered using internal resources. Bidders may deliver bids by hand or by a courier service to our physical location at the "Return Bid To" address specified. The University shall not be responsible for any delays caused by the Bidder's chosen means of bid delivery. Bidder is solely responsible for the timely delivery of its bid, and failure to meet the bid due date and time shall result in rejection of the bid. Your attention is also directed to Standard Terms & Conditions No. 1 - Bid Delivery and Receipt.
- 04 Bid prices are to be quoted FOB LSU/DESTINATION and inclusive of any and all applicable shipping and handling charges.
- 05 LSU is a member of the National Association of Educational Procurement (NAEP) and the E & I Cooperative Purchasing Service.

Specifications for solicitation 13870:

Prices shall be firm for acceptance for a minimum of 90 days. Bids conditioned with shorter acceptance periods may be rejected.

LSU is seeking an IPAM solution to replace our existing infrastructure. Our current system is a mix of a commercial IP management solution, bind, ISC-DHCPD, and a home grown network registration portal. Our current system is 1 authoritative hidden master (Physical server), 2 authoritative slaves (Virtual Servers), 2 recursive DNS servers (Physical server), 1 authoritative slave/backup master (Disaster Recovery), 1 recursive DNS server (Disaster Recovery), and 2 DHCP Failover Pair (Virtual servers). We also replicate DNS with another university as a disaster recovery site and hold their replication data here as well. We have outgrown our homegrown network registration system and the new solution must support 1Pv6.

For explanation purposes, this is the proposed layout of what we expect the solution to look like:

Main campus.

1. Address Manager (Primary) (Virtual Server Preferred.)
2. Internal Master/External Hidden Master DNS (Physical servers)
3. Two DHCP/Internal DNS Slave servers These will function as the DHCP failover pair.
4. Two External Recursive DNS servers.

Disaster Recovery Site. (All **Virtual** Servers)

1. Address Manager (Secondary).
2. DHCP & DNS server Internal.
3. External Recursive DNS server.

The solution must also meet the minimal specifications listed below.

Mandatory Requirements:

1. Minimum of 4000-5000 DNS queries per second.
2. 1.4 Million IPv4 Addresses, and a/64 for IPv6.
 - a. 34k Static IP addresses
 - b. 222k Defined IP addresses
 - c. The rest are private and public address for future expansion.
3. 400+ Signed DNS Zones.
4. 1100+ Authoritative Zones
5. 50K+ domain name records
6. The ability to replicate data to another university's DNS for DR.

Mandatory Requirements of entire solution:

1. The system shall be an integrated solution incorporating DNS,DHCP,and IP Address Management capabilities in a single DDI platform.
2. The system shall have a self-service device registration portal.
3. The solution shall have a clear separation between Management and Service layers.
4. The solution shall provide a granular access rights model with five levels of access: Hide, View, Change, Add, and Full Access.
5. The solution shall provide built-in change request workflows allowing delegating administration tasks to various users/user groups while enforcing a formal approval process.
6. The solution shall provide a pre-deployment data validation mechanism to prevent syntactical and logical configuration errors from being pushed to the managed DNS/DHCP servers.
7. The solution shall support a referential data integrity model that will ensure that no configuration change will result in orphaned objects or incompatible data leading to outages.
8. The solution shall provide transaction logs for every change that occurs within the system with usernames and time stamps associated with it.
9. The solution shall provide a single point for software upgrades and patch deployments to the service layer.

IP Address Management- Mandatory Requirements

1. The management system shall have no artificial limitations (via license or otherwise) on the number of database objects.
2. The management system shall include built-in reporting capabilities providing a comprehensive set of reports that can be customized, scheduled and delivered via email.
3. The management system shall provide the ability to create discrete IP infrastructure models with overlapping IP spaces that can co-exist in the system in separate configuration spaces.
4. The management system shall provide a built-in IP discovery engine capable of using both proprietary and non-proprietary discovery protocols in order to collect network information.
5. The management system shall provide a disaster recovery scheme that includes application layer clustering, database replication and failover to a secondary or tertiary server.
6. The system shall provide a robust API implementation.
7. The system shall provide LDAP integration enabling importing Active Directory groups and using AD credentials for sign-on.
8. The system shall provide a granular access rights model for GUI and API users with multiple levels of access including: Hide, View, Change, Add, and Full Access.
9. The system shall provide extensive auditing capabilities on all database objects including user login sessions.
10. The system shall include an XML interface that enables adding new IPAM data in bulk.
11. The system shall include a service that would inspect production database in order to ensure that configuration data is consistent and correct for all DNS, DHCP, and IPAM data.
12. The system must have the ability to define and enforce naming policies for DNS objects.

Device Registration Portal – Mandatory Requirements

1. The service shall be capable of Automatic Device Registration.
2. The service shall be capable of registration of non-browser based systems.
3. The service shall be capable of tracking all devices associated with a user.

4. The service shall be capable of limiting the number of devices per user.
5. The service shall be capable of capturing detailed device information.

DNS/DNCP Server Mandatory Requirements

1. The server shall be hardened and provide 99.999% availability of core services.
2. The server shall be capable of performing all of the following roles: DNS Authoritative, DNS Recursive, and DHCP server.
3. The server shall be capable of operating without connectivity to the management core, with automatic queuing of updates until connection to the management layer is re-established.
4. The server shall provide a High Availability clustering scheme that would include a segregated HA interface for heartbeat messages and data synchronization.
5. The virtual server shall be capable of running on a wide variety of hypervisors including VMware and Hyper-V.
6. The server shall provide Anycast support by means of BGP, OSPF or RIP routing protocols.

DNS Service- Mandatory Requirements

1. DNS service shall support the following roles: master, slave, caching, forwarding, and stealth.
2. DNS service shall support both IPv4 and IPv6 with tracking of dual-stacked addresses.
3. DNS service shall support DNS64 for integration with NAT64.
4. DNS service shall discriminate DNS responses-based on the source of the query.
5. DNS service shall provide secure zone transfers using TSIG.
6. DNS service shall use unique TSIG keys per Master/Slave server pair.
7. DNS service shall support Response Policy Zone (RPZ) definition and accept threat updates via security feeds.
8. DNS service shall support DNSSEC security extensions with several signature digest and key signing algorithms.
9. DNS service shall provide a DNSSEC key management mechanism supporting different rollover policies for each type of key.
10. The ability to support OpenDNS.

DHCP Service – Mandatory Requirements

1. DHCP service shall support IPv4 and IPv6 addresses.
2. The service shall support standard, advanced, vendor-specific, and custom options for both DHCPv4 and DHCPv6.
3. DHCP service shall provide Dynamic DNS updates secured using TSIG and GSS-TSIG.
4. DHCP service shall be able to filter DHCP requests by specific identifiers, custom and complex match statements.
5. DHCP service shall support failover/HA capabilities.

Data Migration – Mandatory Requirements

1. Vendor shall provide a migration tool that would allow importing IPAM data from various sources into the new DDI infrastructure.
2. The migration tool shall ensure referential integrity by validating and normalizing the data before committing it to the configuration management database.

3. The system shall provide the means of exporting I P A M database tables to a CSV format. This function shall be used to copy data into another application(s) or to manipulate the data outside of the system.

Licensing and Support · Mandatory Requirements

1. The type of software license for system components shall be a perpetual license not bound to a particular hardware appliance or Virtual Machine.
 2. Vendor shall provide a minimum five (5) years of hardware and software support. Support shall include notifications of last-time buy announcement and the last-time-buy date and notification of end-of-life for the server model being used in production.
 3. Vendor shall provide a minimum three (3) years of new software feature functionality
 4. Vendor shall provide hardware refresh option that would allow upgrading the hardware without the need to re purchase software licenses.
 5. Vendor shall provide a standard Next Business Day or an optional 4-hour SLAs for onsite hardware repairs.
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**BOARD OF SUPERVISORS
LOUISIANA STATE UNIVERSITY AND
AGRICULTURAL & MECHANICAL COLLEGE
Purchasing Office, 213 Thomas Boyd Hall
Baton Rouge, LA 70803-3001**

INSURANCE REQUIREMENTS

WORKMEN'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE: The Contractor shall, before commencing any work to be conducted under this contract, procure Workmen's Compensation and Employer's Liability insurance with a limit of liability as required by the Labor Code of the State of Louisiana with an insurance company authorized to write such policies of insurance in the State of Louisiana. It shall be the further responsibility of the Contractor to require that all subcontractors have in full force and effect, a policy of Workmen's Compensation and Employer's Liability insurance before proceeding with any of the work required under this contract. The Employer's Liability limit shall be \$1,000,000 when work is over water and involves maritime exposure.

COMMERCIAL GENERAL LIABILITY INSURANCE: Commercial General Liability Insurance with a combined single limit of \$1,000,000 per occurrence for bodily injury and property damage. This insurance shall include the following coverage:

1. Premises - Operations;
2. Broad Form Contractual Liability;
3. Products and Completed Operations;
4. Use of Contractors and Subcontractors;
5. Personal Injury;
6. Broad Form Property Damage;
7. Explosion, Collapse and Under ground (XCU) Coverage.

BUSINESS AUTOMOBILE LIABILITY INSURANCE: Business Automobile Liability Insurance with a combined single limit of \$1,000,000 per occurrence for bodily injury and property damage, unless otherwise indicated. This insurance shall include for bodily injury and property damage the following coverages:

1. Owned automobiles;
2. Hired automobiles;
3. Non-owned automobiles.

If the vendor/contractor does not own an automobile and an automobile is utilized in the execution of the contract, then only hired and non-owned coverage is acceptable. If an automobile is not utilized for the execution of the contract, then automobile coverage is not required.

Board of Supervisors of Louisiana State University and Agricultural & Mechanical College shall be named as additional insured on all liability policies. A Thirty (30) day prior notice of cancellation must be given to the University for all required coverages. Insurance must be from a company with an A.M. Best's rating of no less than A:-VI who is authorized to do business in the State of Louisiana. The A.M. Best's rating requirement may be waived for Worker's Compensation only.

The successful contractor is to provide the owner with a certificate of insurance prior to commencement of work.